

RECEIVED

MAR -5 2002

TECH CENTER 1600/2900



1645

## RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/09/990,762

TIME: 11:14:10

Input Set : A:\#489674 v1 - MTV-30.02 Sequence listing.txt

Output Set: N:\CRF3\02192002\I990762.raw

4 <110> APPLICANT: JOUNG, J. KEITH  
 5 MILLER, JEFFREY  
 6 PABO, CARL O.  
 8 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS  
 10 <130> FILE REFERENCE: MTV-030.02 (20021-3002)  
 12 <140> CURRENT APPLICATION NUMBER: 09/990,762  
 13 <141> CURRENT FILING DATE: 2001-11-14  
 15 <150> PRIOR APPLICATION NUMBER: 09/858,852  
 16 <151> PRIOR FILING DATE: 2001-05-16  
 18 <150> PRIOR APPLICATION NUMBER: 60/204,509  
 19 <151> PRIOR FILING DATE: 2000-05-16  
 21 <160> NUMBER OF SEQ ID NOS: 97  
 23 <170> SOFTWARE: PatentIn Ver. 2.1  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 25  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Artificial Sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 32 conserved peptide sequence  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: MOD\_RES  
 36 <222> LOCATION: (2)..(5)  
 37 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass 2-4  
 38 variable amino acids  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: MOD\_RES  
 42 <222> LOCATION: (6)..(18)  
 43 <223> OTHER INFORMATION: Variable amino acid  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: MOD\_RES  
 47 <222> LOCATION: (20)..(24)  
 48 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass 3-5  
 49 variable amino acids  
 51 <400> SEQUENCE: 1/  
 52 Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 53 1 5 10 15  
 55 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His  
 56 20 25  
 58 <210> SEQ ID NO: 2  
 59 <211> LENGTH: 38  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Unknown Organism

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/990,762

DATE: 02/19/2002

TIME: 11:14:10

Input Set : A:\#489674 v1 - MTV-30.02 Sequence listing.txt

Output Set: N:\CRF3\02192002\I990762.raw

```

63 <220> FEATURE:
64 <223> OTHER INFORMATION: Description of Unknown Organism: Lac promoter
66 <400> SEQUENCE: 2
67 ctttacactt tatgcttccg gctcgatatgt tgtgtcga 38
70 <210> SEQ ID NO: 3
71 <211> LENGTH: 39
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid
77 promoter
79 <400> SEQUENCE: 3
80 ctttacaatt tatcccttgg tcggctagat ttactogag 39
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 4
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
90 zinc finger peptide
92 <400> SEQUENCE: 4
93 Cys Cys His His
94 1
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 9
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker
105 <400> SEQUENCE: 5
106 Ala Ala Ala Pro Arg Val Arg Thr Gly
107 1 5
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 16
112 <212> TYPE: DNA
113 <213> ORGANISM: Escherichia coli
115 <400> SEQUENCE: 6
116 tcgacaagcg tgggcg 16
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 16
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
126 oligonucleotide
128 <400> SEQUENCE: 7
129 caagggttca ggggcg 16
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 16

```

## RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/09/990,762

TIME: 11:14:10

Input Set : A:\#489674 v1 - MTV-30.02 Sequence listing.txt

Output Set: N:\CRF3\02192002\I990762.raw

```

134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
139     oligonucleotide
141 <400> SEQUENCE: 8
142 ggctataaaa ggggcg                                16
145 <210> SEQ ID NO: 9
146 <211> LENGTH: 16
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
152     oligonucleotide
154 <400> SEQUENCE: 9
155 tgggacatgt tgggcg                                16
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 6
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
165     recognition sequence
167 <400> SEQUENCE: 10
168 Asn Ser Gly Ser Trp Lys
169   1           5
172 <210> SEQ ID NO: 11
173 <211> LENGTH: 6
174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
179     recognition sequence
181 <400> SEQUENCE: 11
182 Asn Ser Gly Ser His Lys
183   1           5
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 6
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
193     recognition sequence
195 <400> SEQUENCE: 12
196 Asn His Gly Ser Trp Lys
197   1           5
200 <210> SEQ ID NO: 13
201 <211> LENGTH: 6
202 <212> TYPE: PRT

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/990,762

DATE: 02/19/2002

TIME: 11:14:10

Input Set : A:\#489674 v1 - MTV-30.02 Sequence listing.txt

Output Set: N:\CRF3\02192002\I990762.raw

203 <213> ORGANISM: Artificial Sequence  
 205 <220> FEATURE:  
 206 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger  
 207 recognition sequence  
 209 <400> SEQUENCE: 13  
 210 Thr Arg Thr Asn Lys Ser  
 211 1 5  
 214 <210> SEQ ID NO: 14  
 215 <211> LENGTH: 6  
 216 <212> TYPE: PRT  
 217 <213> ORGANISM: Artificial Sequence  
 219 <220> FEATURE:  
 220 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger  
 221 recognition sequence  
 223 <220> FEATURE:  
 224 <221> NAME/KEY: MOD\_RES  
 225 <222> LOCATION: (2)  
 226 <223> OTHER INFORMATION: Positively charged amino acid  
 228 <220> FEATURE:  
 229 <221> NAME/KEY: MOD\_RES  
 230 <222> LOCATION: (5)  
 231 <223> OTHER INFORMATION: Positively charged amino acid  
 233 <400> SEQUENCE: 14  
 234 Arg Xaa Trp Leu Xaa Leu  
 235 1 5  
 238 <210> SEQ ID NO: 15  
 239 <211> LENGTH: 11  
 240 <212> TYPE: DNA  
 241 <213> ORGANISM: Artificial Sequence  
 243 <220> FEATURE:  
 244 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
 245 sequence  
 247 <220> FEATURE:  
 248 <221> NAME/KEY: modified\_base  
 249 <222> LOCATION: (2)  
 250 <223> OTHER INFORMATION: No clear preference  
 252 <220> FEATURE:  
 253 <221> NAME/KEY: modified\_base  
 254 <222> LOCATION: (11)  
 255 <223> OTHER INFORMATION: No clear preference  
 257 <400> SEQUENCE: 15  
 258 cnggacacgt n  
 261 <210> SEQ ID NO: 16  
 262 <211> LENGTH: 11  
 263 <212> TYPE: DNA  
 264 <213> ORGANISM: Artificial Sequence  
 266 <220> FEATURE:  
 267 <223> OTHER INFORMATION: Description of Artificial Sequence: In vivo site  
 268 selection library

11

## RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/09/990,762

TIME: 11:14:10

Input Set : A:\#489674 v1 - MTV-30.02 Sequence listing.txt

Output Set: N:\CRF3\02192002\I990762.raw

270 <220> FEATURE:  
 271 <221> NAME/KEY: modified\_base  
 272 <222> LOCATION: (6)..(10)  
 273 <223> OTHER INFORMATION: A, T, C or G  
 275 <400> SEQUENCE: 16  
 276 cgggannnnn g 11  
 279 <210> SEQ ID NO: 17  
 280 <211> LENGTH: 11  
 281 <212> TYPE: DNA  
 282 <213> ORGANISM: Artificial Sequence  
 284 <220> FEATURE:  
 285 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 286 nucleotide sequence  
 288 <400> SEQUENCE: 17  
 289 cgggacacgt g 11  
 292 <210> SEQ ID NO: 18  
 293 <211> LENGTH: 11  
 294 <212> TYPE: DNA  
 295 <213> ORGANISM: Artificial Sequence  
 297 <220> FEATURE:  
 298 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 299 nucleotide sequence  
 301 <400> SEQUENCE: 18  
 302 cgggacatgt g 11  
 305 <210> SEQ ID NO: 19  
 306 <211> LENGTH: 11  
 307 <212> TYPE: DNA  
 308 <213> ORGANISM: Artificial Sequence  
 310 <220> FEATURE:  
 311 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 312 nucleotide sequence  
 314 <400> SEQUENCE: 19  
 315 cgggacacgg g 11  
 318 <210> SEQ ID NO: 20  
 319 <211> LENGTH: 11  
 320 <212> TYPE: DNA  
 321 <213> ORGANISM: Artificial Sequence  
 323 <220> FEATURE:  
 324 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 325 nucleotide sequence  
 327 <400> SEQUENCE: 20  
 328 cgggacacgt g 11  
 331 <210> SEQ ID NO: 21  
 332 <211> LENGTH: 11  
 333 <212> TYPE: DNA  
 334 <213> ORGANISM: Artificial Sequence  
 336 <220> FEATURE:  
 337 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
 338 nucleotide sequence

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/990,762

DATE: 02/19/2002

TIME: 11:14:11

Input Set : A:\#489674 v1 - MTV-30.02 Sequence listing.txt

Output Set: N:\CRF3\02192002\I990762.raw

L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:1208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82  
L:1353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92  
L:1406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95  
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95  
L:1412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95